

2017 AWWA Water Audit Level 1 Validation – Review Document

Audit Information:

Utility: Sweetwater Authority PWS ID: 3710025
System Type: Potable Audit Period: Fiscal Year 2017-2018
Utility Representation: Justin Brazil (Water Treatment Superintendent), Clay Clifton (Program Analyst), Erick Del Bosque (Engineering Manager), Davis Doane (Plant Maintenance Supervisor), Gregg Harpenau-Parks (Customer Service Manager), Sue Mosburg (Program Manager), Rich Stevenson (Director of Finance), Jennifer Sabine (Assistant General Manager), Nathan Golder (Distribution Manager)
Validation Date: 11/1/2018 Call Time: 9:00 am Sufficient Supporting Documents Provided: Yes

Validation Findings & Confirmation Statement:

Key Audit Metrics:

Data Validity Score: 68 Data Validity Band (level): Band III (51-70)
ILI: 0.52 Real Loss: 8.04 (gal/conn/day) Apparent Loss: 8.41 (gal/conn/day)
Non-revenue water as percent of cost of operating system: 2.6%

Certification Statement by Validator:

This water loss audit report has been Level 1 validated per the requirements of California Code of Regulations Title 23, Division 2, Chapter 7 and the California Water Code Section 10608.34.

All recommendations on volume derivation and Data Validity Grades were incorporated into the water audit. ☒

Validator Information:

Water Audit Validator: Tony Wagoner Validator Qualifications: Contractor for CA-NV AWWA Water Loss TAP

Validator Provided

2017 AWWA Water Audit Level 1 Validation

Water System Name:

Water System ID Number:

Water Audit Period:

Sweetwater Authority

3710025

Fiscal Year 2017-2018

Water Audit & Water Loss Improvement Steps:

Steps taken in preceding year to increase data validity, reduce real loss and apparent loss as informed by the annual validated water audit:

Sweetwater Authority (Authority) first noticed an issue with non-revenue water at the beginning of calendar year 2018, when reported water consumption for the previous month exceeded water production for the second consecutive month. This was first thought to a data anomaly, however, when the issue persisted in the following months the Authority looked into its billing and customer meter reading practices, as well as the supporting technology and data handling practices. No issues were found. The Authority then suspected that operation changes in water treatment plant production, implemented in mid-to-late 2017 seemed to be causing under-registration of flows by the water production meter at the Robert A. Perdue Treatment Plant. The Authority then initiated a consultant selection process to provide technical assistance, and ultimately implemented several water production meter tests in the next fiscal year (2018-19) to determine the root of the problem. The Authority is currently taking measures to address the issue.

Staff participated in water loss control training seminars and conferences to gain a deeper understanding of water loss control best practices. Staff also researched new technologies and methods being used by other water systems to recover non-revenue water used during distribution system flushing activities.

One staff member attended training and received Water Audit Validator Certification.

Certification Statement by Utility Executive:

This water loss audit report meets the requirements of California Code of Regulations Title 23, Division 2, Chapter 7 and the California Water Code Section 10608.34 and has been prepared in accordance with the method adopted by the American Water Works Association, as contained in their manual, *Water Audits and Loss Control Programs, Manual M36, Fourth Edition* and in the Free Water Audit Software version 5.

Utility Provided

JENNIFER H. SABINE
Executive Name (Print)

ASSISTANT GENERAL MGR.
Executive Position


Signature

12/7/18
Date